Demand-Limiting Assessment Tool for Small Commercial Buildings

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Outline

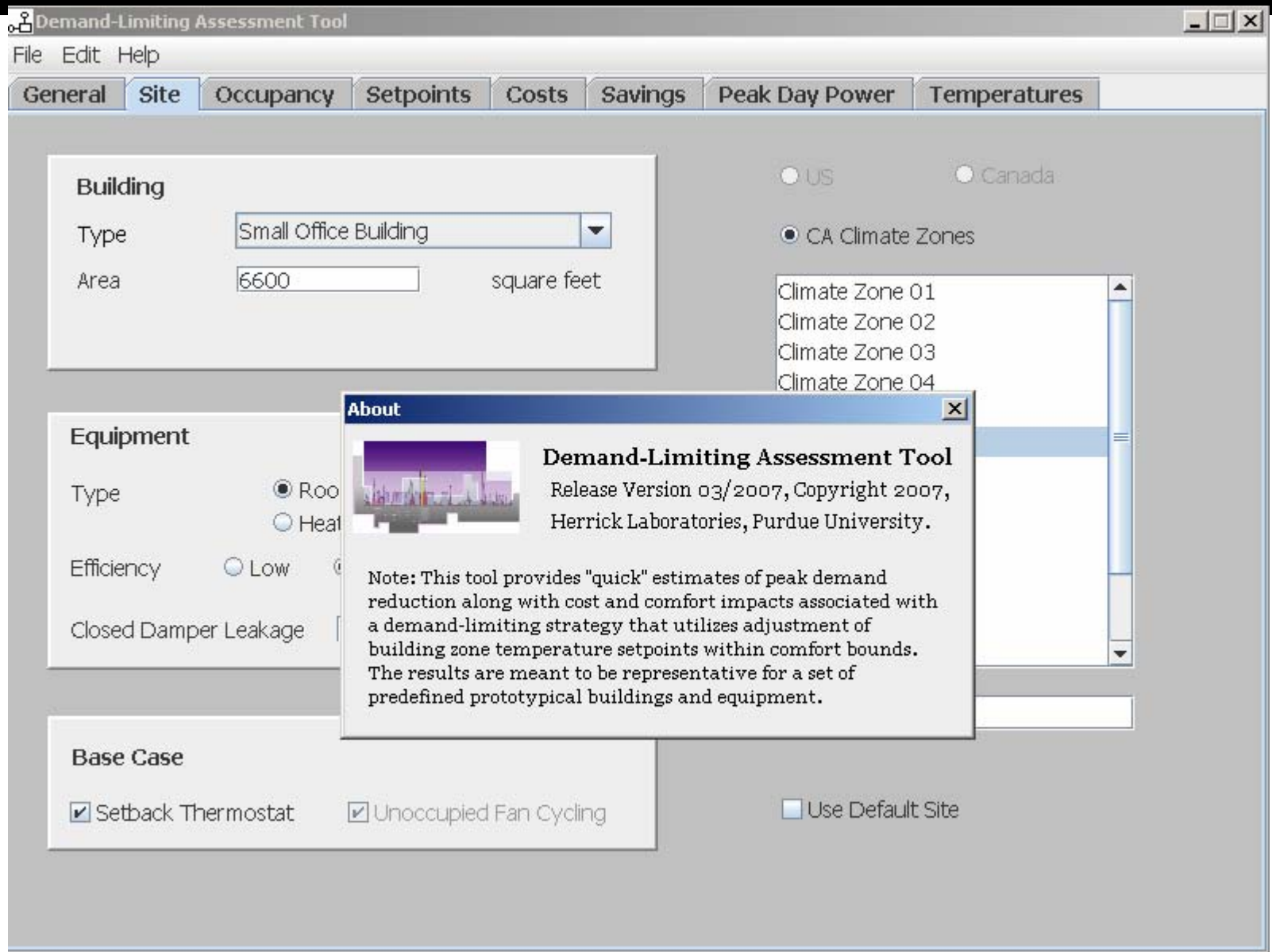
- Tool Objectives
- Demonstration
- Current Efforts
- Possible Next Steps

Current Objectives

- Quick assessment tool for potential end users to evaluate
  - demand reduction
  - operating cost savings
  - occupant thermal comfort impacts
- Only allow users to change most important factors
  - Type and size of building
  - Location
  - Utility rates
  - Occupancy schedule
  - Demand-limiting parameters
  - Equipment efficiency
- Potentially useful as a tool for utilities to promote this technology

Small Building Assessment Tool

Demo



Current Efforts

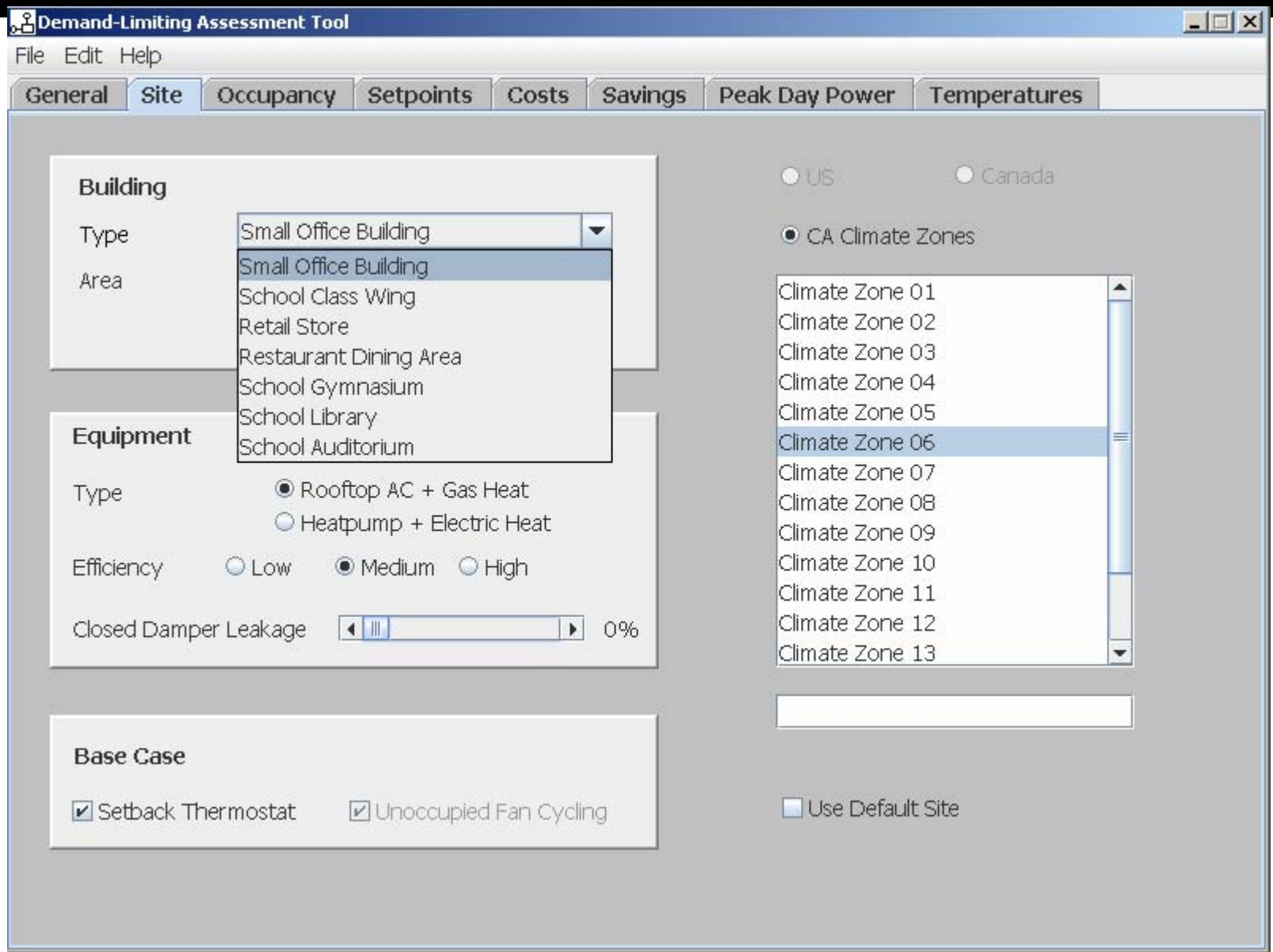
- Add comfort impacts
- Add on-line reference manual
- Add additional utility rate models
- Get initial feedback on end-user tool

Possible Next Steps

- Incorporate wider range of building prototypes
- Web-based implementation
- End-user feedback
- Develop alternative tool for utilities and utility program planners
  - Statewide assessments of technology
  - Impact assessments of different utility programs

Small Building Assessment Tool

Demo



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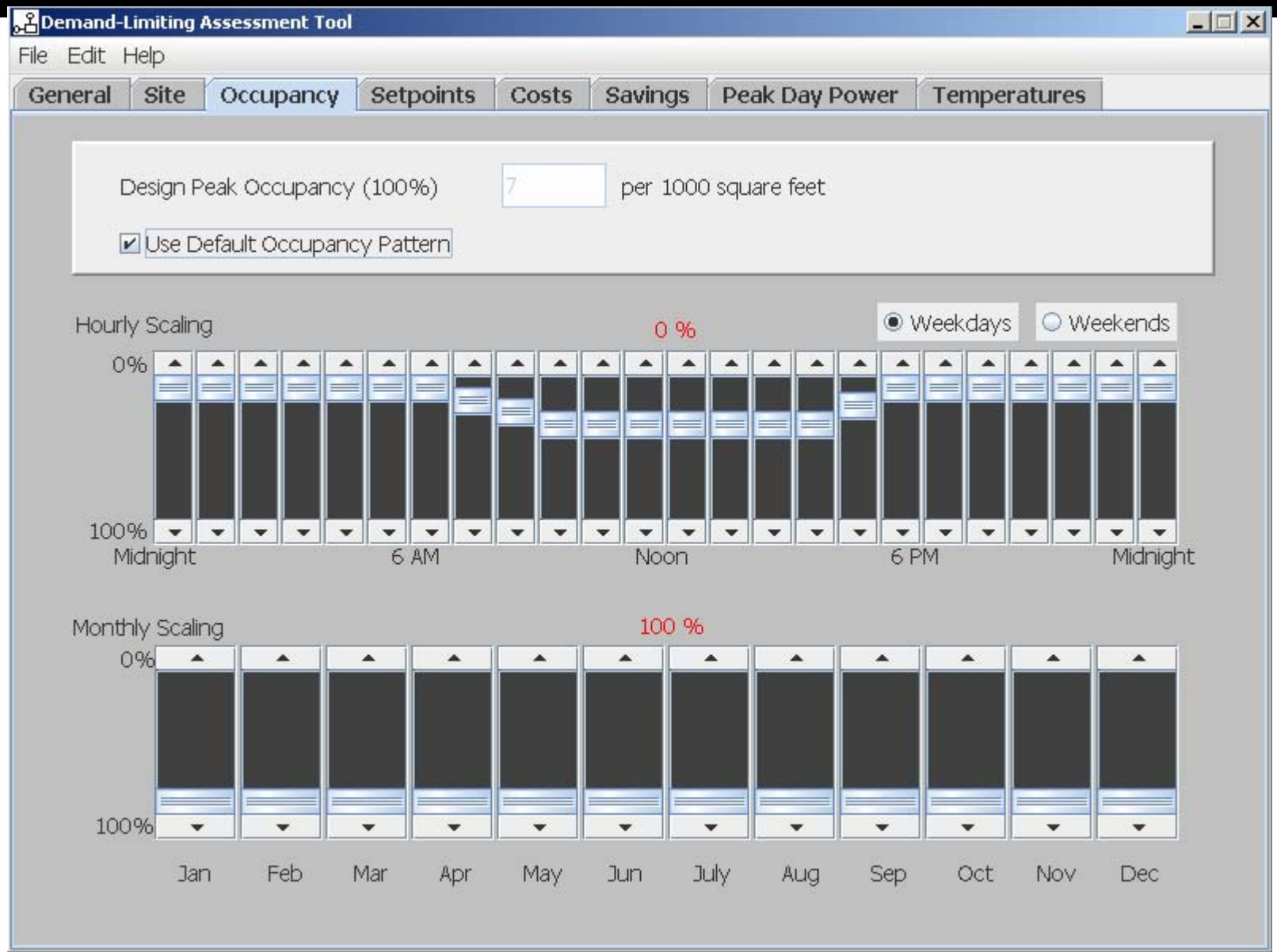

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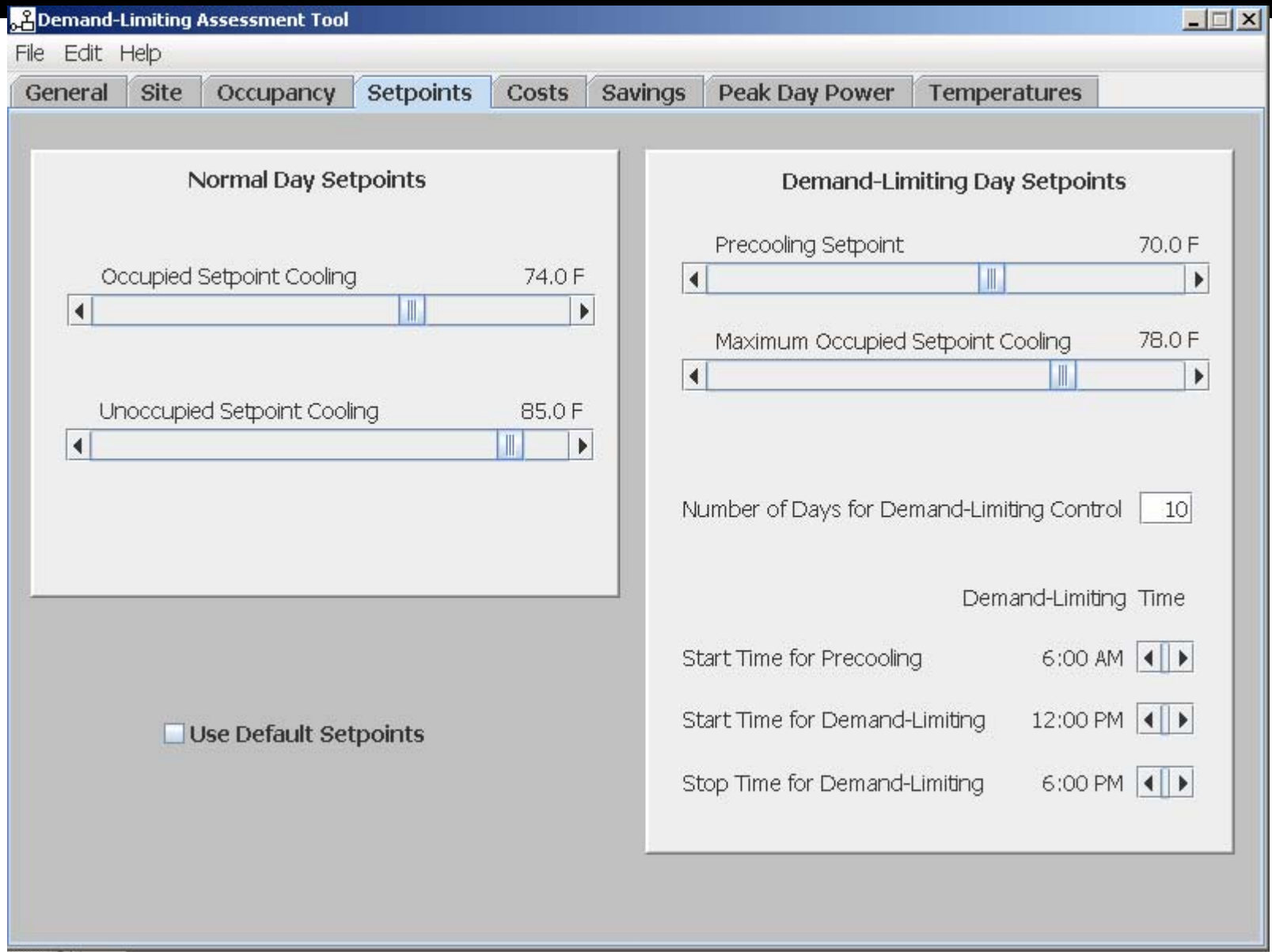

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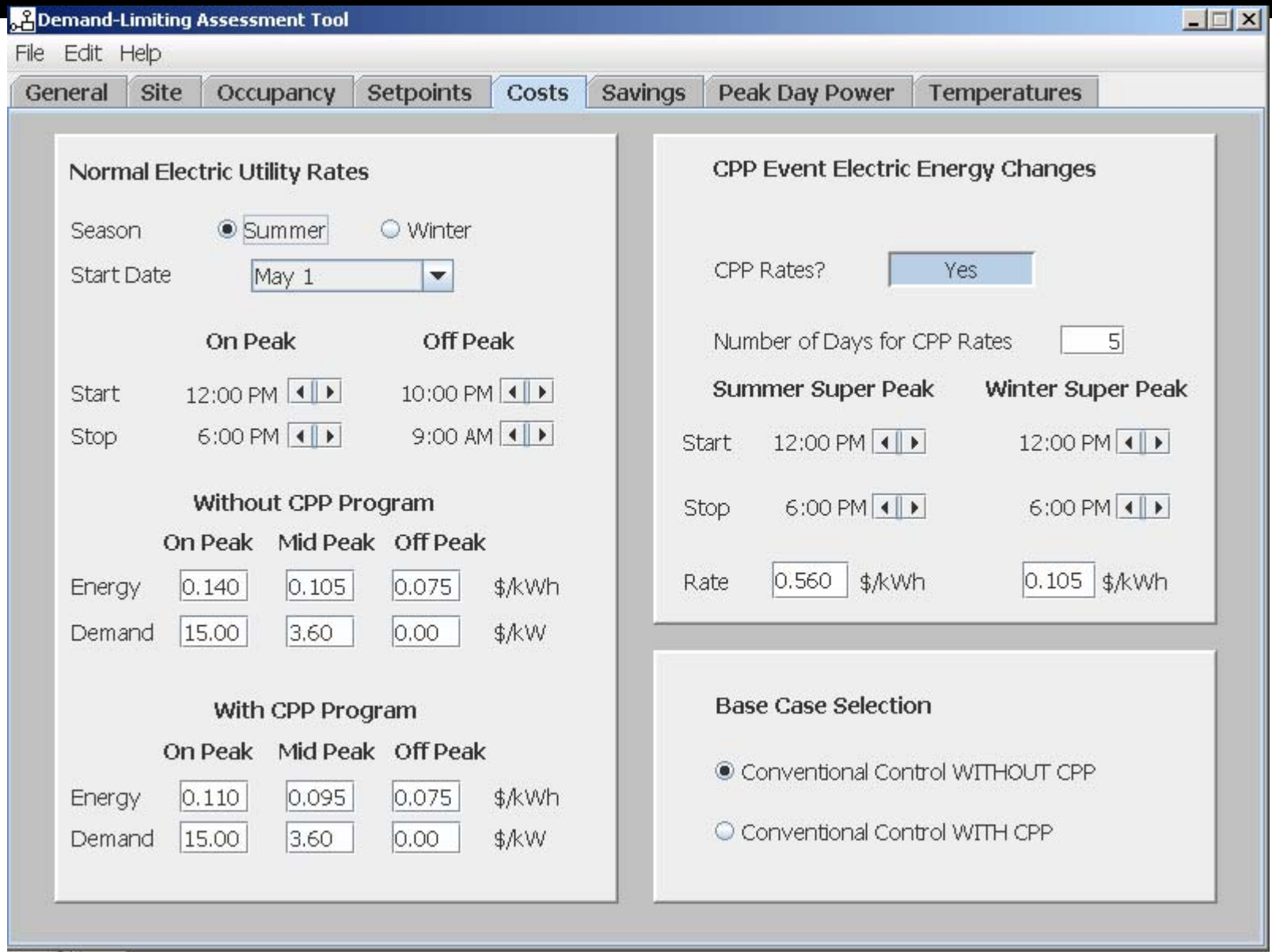


Small Building Assessment Tool

Demo

Demand-Limiting Assessment Tool

File Edit Help

General | Site | Occupancy | Setpoints | Costs | Savings | Peak Day Power | Temperatures

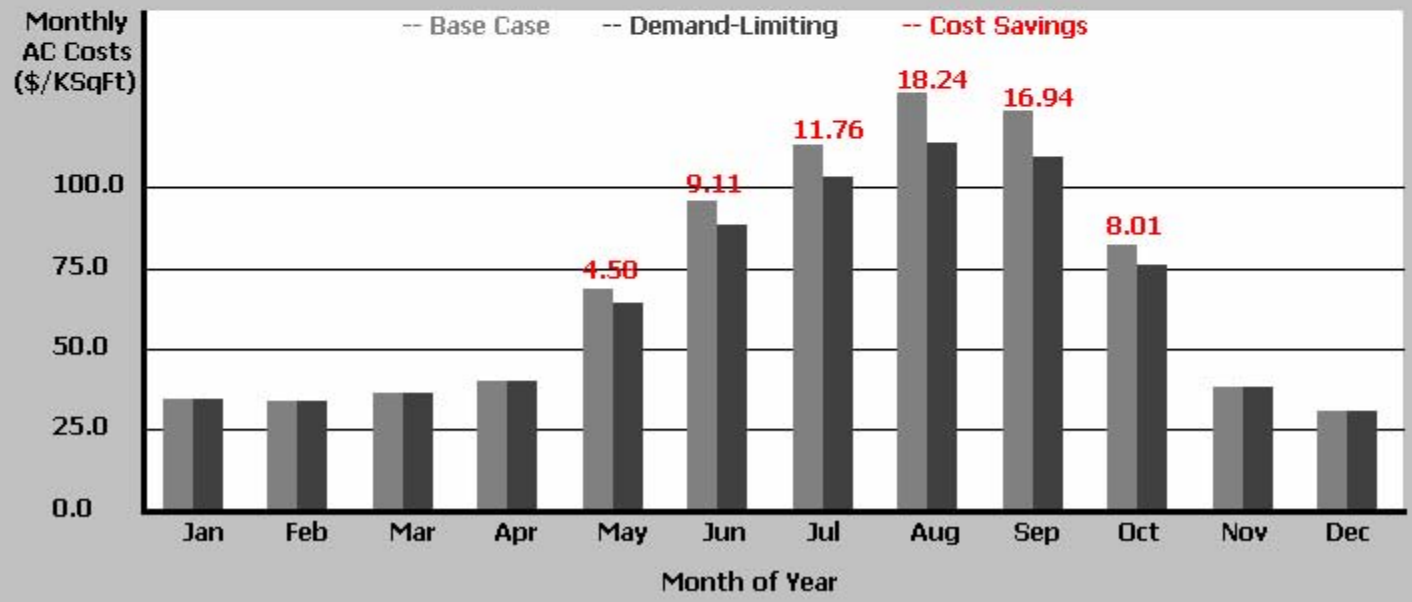
Calculate

Base Case: Conventional Control WITHOUT CPP

Annual Cost Savings

Strategy	AC Costs($/kSqFt)	Savings (%)	Peak AC Power (W/SqFt)	Peak Dm. Rdct. (W/SqFt)
Base Case	992.12	0.00	3.31	0.00
Demand Limiting	923.48	6.92	2.34	0.98

Monthly AC Costs Comparison



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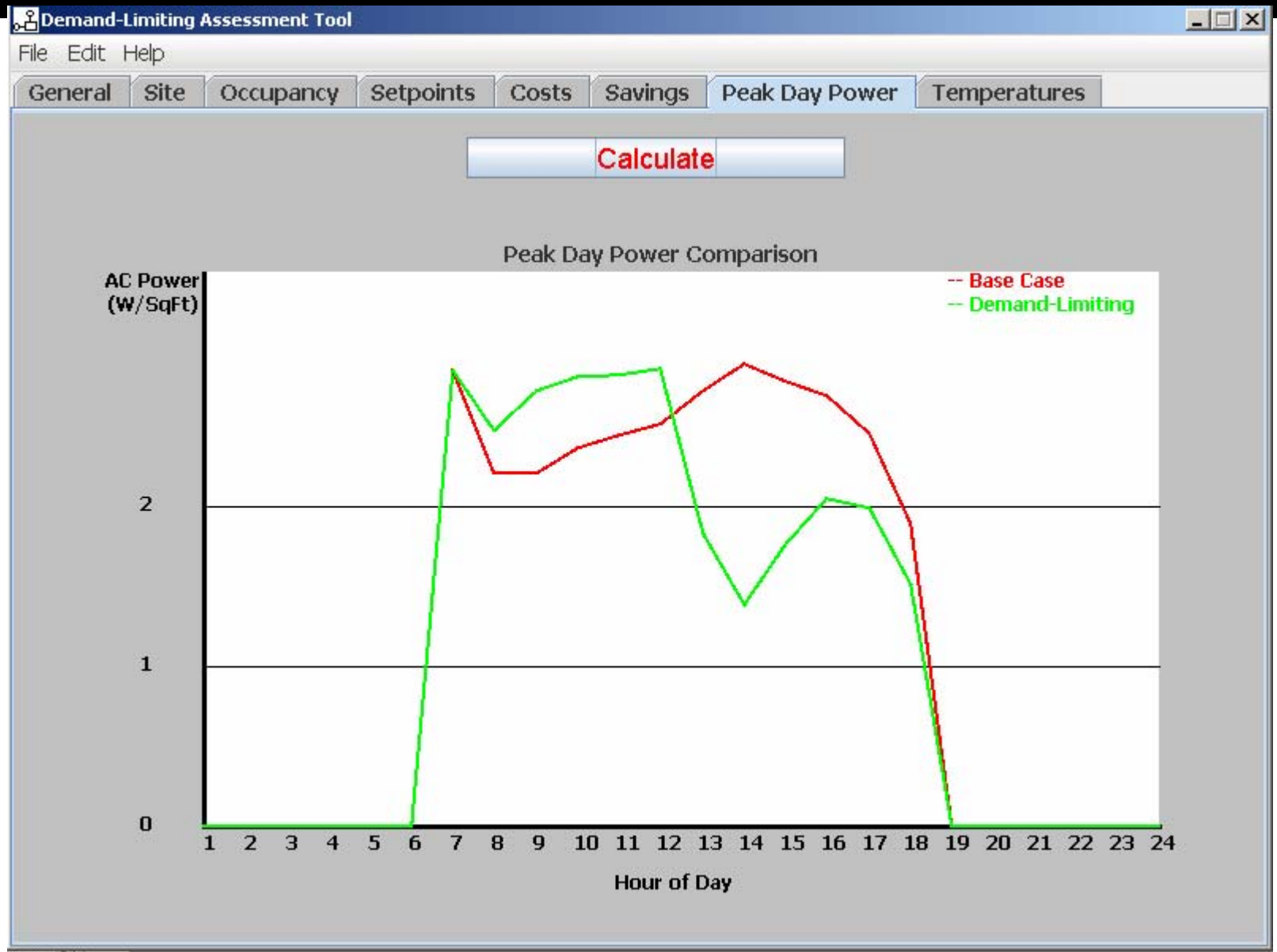

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